

AMENDMENTS TO THE CLAIMS

A listing of the claims presented in this patent application appears below. This listing replaces all prior versions and listing of claims in this patent application.

Claims 1-8 (cancelled).

Claim 9 (currently amended): A manufacturing method for a glass substrate of which the outer periphery portion is unprocessed, characterized in that a first lapping process, a second lapping process, a polishing process and a washing process are carried out after a glass-melting process of melting a glass material and a press molding process ~~[[is]]~~ are carried out wherein the melted glass is flowed into a lower mold and the so as to compress glass between an upper mold and ~~[[a]]~~ the lower mold is press molded without regulating the edge surface of the outer periphery portion of the glass and without processing the outer periphery portion of the glass, then, a crystallization process or an annealing process is carried out.

Claim 10 (currently amended): A manufacturing method for a glass substrate of which the outer periphery portion is unprocessed, characterized in that a center of gravity coring process wherein a center hole is created using the center of gravity as the center of the hole is carried out and a first lapping process, a precision inner periphery edge surface process, an inner periphery edge surface polishing process, a second lapping process, a polishing process and a washing process are carried out after a glass-melting process of melting a glass material and a press molding process ~~[[is]]~~ are carried out wherein the melted glass is flowed into a lower mold and the so as to compress glass between an upper mold and ~~[[a]]~~ the lower mold is press molded without regulating the edge surface of the outer periphery portion of the glass and without processing the outer periphery portion of the glass, then, a crystallization process or an annealing process is carried out.

Claim 11 (currently amended): A manufacturing method for a glass substrate, comprising the steps of:

melting a glass material;

flowing the melted glass material into a lower mold;

compressing the melted glass material between ~~an upper mold and a~~ the lower mold and an upper mold wherein the lower and upper molds are ~~and in contact with upper and lower portions of the glass and~~ not in contact with outer periphery of the glass material, to give disk-shaped form to the molded glass material without processing the outer periphery portion; and

subjecting the ~~above~~ molded glass material to a crystallization process or an annealing process, a lapping process, a polishing process and a washing process.

Claim 12 (previously presented): The manufacturing method for a glass substrate of Claim 11, wherein the upper mold and the lower mold have respectively a molding surface having planar form.

Claim 13 (previously presented): The manufacturing method for a glass substrate of Claim 11, wherein a parallel spacer is intervened between the upper mold and the lower mold while the outer periphery portion of the glass and the parallel spacer maintain the non-contact condition.

Claim 14 (previously presented): The manufacturing method for a glass substrate of Claim 13, wherein the spacer makes surface contact with molding surface of the lower mold.

Claim 15 (previously presented): The manufacturing method for a glass substrate of Claim 11, wherein in the crystallization process, the glass substrate is heated up to the glass transition point (T_g) + 50°C to T_g + 300°C of the glass material, the glass substrate is generally cooled to a temperature in the vicinity of the glass transition temperature (T_g), and then the glass substrate is gradually cooled.

Claim 16 (previously presented): The manufacturing method for a glass substrate of Claim 11, wherein in the annealing process, after the glass substrate is maintained at a

Application No.: 10/825,178

temperature in the vicinity of the Tg of the glass, the glass substrate is generally cooled to the warp point at a comparatively slow speed of cooling and, afterwards, the glass substrate is cooled at a comparatively high cooling speed.

Claim 17 (previously presented): The manufacturing method for a glass substrate of Claim 11, further comprising an inspection step in which the substrate form is confirmed to be in within the desired ranges.

Claim 18 (previously presented): The manufacturing method for a glass substrate of Claim 11, further comprising forming a recording layer on the substrate.

Claim 19 (new): The manufacturing method for a glass substrate of Claim 10, further comprising the step of detecting the center of gravity of the glass substrate.